



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B6
UNIQUE ID NUMBER: 1GE029
COMBUSTOR:
ENGINE TYPE: TF
BYPASS RATIO: 5.1
PRESSURE RATIO (π_{00}): 31.6
RATED THRUST (F_{00}) (kN): 267.2

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	14.5	59.7	50.9	9.1
AS % OF ORIGINAL LIMIT	73.8	50.6	49.3	50.6
AS % OF CAEP/2 LIMIT (NO _x)			61.7	
AS % OF CAEP/4 LIMIT (NO _x)			72.5	
AS % OF CAEP/6 LIMIT (NO _x)			81.9	
AS % OF CAEP/8 LIMIT (NO _x)			95.6	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
- DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	2.579	0.07	0.52	30.81	7.8
CLIMB OUT	85	2.2	2.081	0.08	0.52	22.94	5.4
APPROACH	30	4.0	0.686	0.20	1.93	9.11	2.3
IDLE	7	26.0	0.207	8.99	41.66	3.79	3.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			871	2966	13970	12362	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				11.1	52.4	46.3	7.8
SIGMA (D _p /F ₀₀ in g/kN, or SN)				1.3	3.0	2.2	1.3
RANGE (D _p /F ₀₀ in g/kN, or SN)				10.02-12.49	49.74-55.21	44.57-48.88	6.1-8.4

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-97.8
TEMPERATURE (K)	287-296
ABS HUMIDITY (kg/kg)	0.0084-0.014

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
TEST ORGANIZATION: CF6 Eval Engineering
TEST LOCATION: Site IIIC, PTO, Peebles, Ohio
TEST DATES: 29/05/1985-03/06/1985

REMARKS

1. Ref GE Report R86AEB160.
2. Engine S/N's 690105 and 690005/2.

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)